No. 663
23/10/91

EXPLOSIVES.

I.—Rules to regulate the Transport and Importation of Explosives.

1. In supersession of the Notification by the Government of India, Home Department, No. 1417 (Public), dated the 24th June 1887, and in exercise of the powers conferred by Sections 5 and 7 of the Indian Explosives Act (IV of 1884), the Governor General in Council is pleased to make the following rules to regulate the transport and importation of explosives.

These rules extend to the whole of British India, but the rules relating to the transport of explosives shall cease to apply to any port as defined in the Indian Ports Act (X of 1889), for which special rules made by the Local Government are for the time being in force, in so far as they are expressly superseded by, or are inconsistent with, such special rules.

Nothing in these Rules shall apply to the manufacture, possession, use, sale, transport, or importation of any explosive—

(*a*) by order of the Government, or

(*b*) by any person employed under the Government in the execution of the Indian Explosives Act (IV of 1884) or as a keeper of a magazine, artizan, soldier, sailor, policeman or otherwise, or enrolled as a volunteer under the Indian Volunteers Act (XX of 1869), in the course of his employment or duty as such.

Preliminary.

1. For the purposes of these rules, explosives shall be classified as follows, namely:—

Class 1	...	...	Gunpowder.
Class 2	...	...	Nitrate-mixture.
Class 3	...	...	Nitro-compound.
Class 4	...	...	Chlorate-mixture.
Class 5	...	...	Fulminate.
Class 6	...	...	Ammunition.
Class 7	...	...	Firework.

And when an explosive falls within the description of more than one class, it shall be deemed to belong exclusively to the latest of the classes within the description of which it falls.

Class 1.—*Gunpowder Class.*

The term "gunpowder" means exclusively gunpowder ordinarily so called.

Class 2.—*Nitrate-mixture Class.*

The term "nitrate-mixture" means any preparation, other than gunpowder ordinarily so called, formed by the mechanical mixture of a nitrate with any form of carbon or with any carbonaceous substance not possessed of explosive properties, whether sul-

phur be or be not added to such preparation, and whether such preparation be or be not mechanically mixed with any other non-explosive substance.

The nitrate-mixture class comprises such explosives as—

Pyrolithe,
Pudrolithe,
Poudre saxifragine,

and any preparation coming within the above definition.

CLASS 3.—*Nitro-compound Class.*

The term "nitro-compound" means any chemical compound, possessed of explosive properties, or capable of combining with metals to form an explosive compound, which is produced by the chemical action of nitric acid (whether mixed or not with sulphuric acid) or of a nitrate mixed with sulphuric acid upon any carbonaceous substance, whether such compound is mechanically mixed with other substances or not.

The nitro-compound class has two divisions.

Division 1 comprises such explosives as—

Nitro-glycerine,
Dynamite,
Lithofracteur,
Dualine,
Glyoxiline,
Methylic nitrate,

and any chemical compound or mechanically mixed preparation which consists either wholly or partly of nitro-glycerine or some other liquid nitro-compound.

Division 2 comprises such explosives as—

Gun-cotton, ordinarily so called,
Gun-paper,
Xyloidine,
Gun sawdust,
Nitrated gun-cotton,
Cotton gunpowder,
Schultz's powder,
Nitro-mannite,
Picrates,
Picric powder,
Tonite (or cotton-powder),

and any nitro-compound as before defined which is not comprised in the first division.

CLASS 4.—*Chlorate-mixture Class.*

The term "chlorate-mixture" means any explosive containing a chlorate.

The chlorate-mixture class has two divisions.

Division 1 comprises such explosives as—

Horsley's blasting powder,
Brain's blasting powder,

and any chlorate preparation which consists partly of nitro-glycerine or of some other liquid nitro-compound.

Division 2 comprises such explosives as—

Horsley's original blasting powder,
Erhardt's powder,
Reverley's powder,
Hochstadter's blasting charges,
Reichen's blasting charges,
Teutonite,
Chlorated gun-cotton,

and any chlorate-mixture as before defined, which is not comprised in the first division.

CLASS 5.—*Fulminate Class.*

The term 'fulminate' means any chemical compound or mechanical mixture, whether included in the foregoing classes or not, which from its great susceptibility to detonation, is suitable for employment in percussion-caps or any other appliances for developing detonation, or which, from its extreme sensibility to explosion and from its great instability (that is to say, readiness to undergo decomposition from very slight exciting causes), is especially dangerous.

The fulminate class has two divisions.

Division 1 comprises such compounds as the fulminates of silver and of mercury and preparations of these substances, such as are used in percussion-caps, and any preparation consisting of a mixture of a chlorate with phosphorus, or certain descriptions of phosphorus compounds, with or without the addition of carbonaceous matter, and any preparation consisting of a mixture of a chlorate with sulphur, or with a sulphurate, with or without carbonaceous matter.

Division 2 comprises such substances as the chloride and the iodide of nitrogen, fulminating gold and silver, diazobenzol, and the nitrate of diazobenzol.

CLASS 6.—*Ammunition Class.*

The term "ammunition" means an explosive of any of the foregoing classes when enclosed in any case or contrivance, or otherwise adapted or prepared so as to form a cartridge or charge for small-arms, cannon, or any other weapon, or for blasting or to form any safety or other fuze for blasting, or for shells, or to form any tube for firing explosives, or to form a percussion-cap, a detonator, a fog-signal, a shell, a torpedo, a war-rocket, or other contrivance other than a firework.

The term "percussion-cap" does not include a detonator.

The term "detonator" means a capsule or case which is of such strength and construction, and contains an explosive of the fulminate-explosive class in such quantity that the explosion of one capsule or case will communicate the explosion to other like capsules or cases.

The term "safety fuze" means a fuze for blasting, which burns and does not explode, and which does

not contain its own means of ignition, and which is of such strength and construction, and contains an explosive in such quantity that the burning of such fuze will not communicate laterally with other like fuzes.

The expression "safety cartridges" means cartridges for small-arms of which the case can be extracted from the small-arm after firing, and which are so closed as to prevent any explosion in one cartridge being communicated to other cartridges. The term also includes rifle-calibre machine-guns cartridges if they are of the above description, whether they are for use with machine-guns having chambers identical with those of rifles or with machine-guns which have special chambers.

The maximum gauge at which a small-arm cartridge can be accepted as "safety" is one inch. The following are the gauges of the machine-gun cartridges which may be accepted as "safety":—

·303-inch cordite.

Martini-Henry rifle, solid case.

·45-inch Gardner, Gatling and Nordenfeldt, except Martini-Henry chambered guns.

·4-inch.

Cartridges of larger gauge are not safety cartridges.

The ammunition class has three divisions.

Division 1 comprises exclusively—

Safety cartridges,

Safety fuzes for blasting,

Fuzes for shells, and tubes friction for guns, provided there be no more than five fuzes or 25 tubes in one package, and that the package be a hermetically sealed metal cylinder.

Railway fog signals,

Percussion-caps.

Division 2 comprises any ammunition as before defined which does not contain its own means of ignition and is not included in division 1, such as—

Cartridges for small-arms, which are not safety cartridges,

Cartridges and charges for cannon, shells, mines, blasting, or other like purposes,

Shells and torpedoes containing any explosive,

Fuzes for blasting, which are not safety fuzes,

Fuzes for shells,

Tubes for firing explosives,

War-rockets,

which do not contain their own means of ignition.

Division 3 comprises any ammunition, as before defined, which contains its own means of ignition and is not included in division 1, such as—

Detonators,

Cartridges for small-arms, which are not safety cartridges,

Fuzes for blasting, which are not safety fuzes,

Fuzes for shells,

Tubes for firing explosives,

which do contain their own means of ignition.

By ammunition containing its own means of ignition is meant ammunition having an arrangement, whether attached to it or forming part of it, which is adapted to explode or fire the same by friction or percussion.

CLASS 7.—*Firework Class.*

The firework class has two divisions.

Division 1 comprises firework compositions, that is to say, any chemical compound or mechanically mixed preparation of an explosive or inflammable nature, which is used for the purpose of making manufactured fireworks, and is not included in the former classes of explosives, and also any star and any coloured fire composition, subject to the proviso hereinafter set forth.

Division 2 comprises manufactured fireworks, that is to say, any explosive of any of the foregoing classes and any firework composition, when such explosive or composition is enclosed in any case or contrivance, or is otherwise manufactured so as to form a squib, cracker, toy cap or amorce, serpent, rocket (other than a war-rocket), maroon, lance, wheel, Chinese fire, Roman candle, or other article specially adapted for the production of pyrotechnic effects or pyrotechnic signals or sound signals.

Provided that a substantially constructed and hermetically closed metal case containing not more than 1 lb. of coloured fire composition of such a nature as not to be liable to spontaneous ignition shall be deemed to be a "manufactured firework".

TRANSPORT.

(*a*) *Packing.*

2. The following general rules shall be observed with respect to the packing of explosives for conveyance:—

I.—Each class of explosive shall be separately packed.

II.—An explosive, not being an explosive of the 5th (fulminate) class, or of the 2nd and 3rd divisions of the 6th (ammunition) class, or of the 1st division of the 7th (firework) class, shall, if not exceeding 5 lbs. in quantity, be contained in a substantial case, bag, canister, or other receptacle made and closed so as to prevent the explosive from escaping.

III.—In every other case the explosive shall be contained in a double package. The inner package shall be a substantial case, bag, canister, or other recepta-

cle made and closed so as to prevent the explosive from escaping, and the outer package shall be a box, barrel, or case of wood or metal or other solid material, and shall be of such strength, construction, and character that it will not be broken or accidentally opened, or become defective or insecure whilst being conveyed, and will not allow the explosive to escape:

Provided as follows:

(*a*) If the explosive is of the 1st (or gunpowder) class or of the 2nd (nitrate-mixture) class, or is gun-cotton or another explosive of the 2nd division of the 3rd (nitro-compound) class, the quantity of the explosive in any one outer package shall not, in the case of explosives of the first two classes, exceed 100 lbs., and in other cases 50 lbs.

If the explosive is picric acid, the inner package must be of such a nature as to effectually prevent any picric acid from coming into contact with any basic metallic oxide.*

(*b*) If the explosive belongs to the 1st division of the 3rd (nitro-compound) class or to the 4th (chlorate-mixture) class, the inner package shall be without any metal in its construction, and the inner or outer package or both shall be thoroughly waterproof.† No one of the inner packages shall contain more than 10 lbs., and the aggregate quantity of the explosive in any one outer package shall not exceed 50 lbs.

(*c*)—1. If the explosive belongs to the 5th (fulminate) class, and is of such character that it cannot be packed mixed with water, or that danger would arise from such mode of packing, it shall be packed in such manner as shall be specially directed by the Governor-General in Council.

2. Any other explosive of the fulminate class shall be packed as follows: It shall be packed in bags or coverings of calico, canvas, or other material permeable to water, and containing each not more than 25 lbs. of fulminate, and so made and closed as to prevent any explosive from escaping. Such bags or coverings shall be packed

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* *Note.*—This rule is intended to prevent picric acid being packed in a case lined with certain metals, such as zinc or lead, which would result in danger arising from the formation of a picrate. Waterproof bags inside powder-barrels are suggested as a simple and safe method of packing picric acid for transport or storage.

† *Note.*—From the requisition that the package should be waterproof are excepted—

(1) All explosives falling in the 2nd division of the 4th (chlorate-mixture) class.

(2) Those explosives included in the 1st division of the 3rd (nitro-compound) class which do not yield up their nitro-glycerine in contact with water, such as blasting gelatine, gelatine dynamite, cordite and ballistite and gelignite: provided that any other substance than those named has been certified to be of this character by a Chief Inspector of Explosives.

in a case containing sufficient water to ensure the explosive being kept constantly wet, and such case (hereinafter called the inner case) shall be packed in an outer case containing sufficient water constantly to surround the inner case; and the inner case and the outer case shall each be of such strength, construction, and character that it will not be broken or accidentally opened or become defective or insecure whilst being conveyed, and will not allow any fulminate or water to escape; and the amount of the explosive in any one outer case shall not exceed 200 lbs., except with the consent of, and under conditions approved by, an Inspector of Explosives.

3. Every package when actually used for the packing of one fulminate shall not be used for the packing of any other fulminate or for any other purpose.

4. On the outer case there shall be affixed in conspicuous characters by means of a brand or securely attached label or other mark the word "Explosive," with the name of the explosive followed by the words "Fulminate, Division 1" (or 2 as the case may be) and the name and address of the owner or sender.

(*d*)—1. If an explosive belongs to the 1st division of the 6th (ammunition) class, it shall be contained in a box, barrel, or case of wood, metal, or other solid material, and of such strength, construction, and character that it will not be broken or accidentally opened or become defective or insecure whilst being conveyed, and will not allow any explosive to escape.

2. If the explosive belongs to the 2nd division of the 6th (ammunition) class, the following rules shall apply, *viz.*:—

(i) A shell or torpedo containing any explosive material, whether such shell or torpedo be separate or form part of a rocket or other appliance, shall be packed in such manner as may be specially directed by the Governor-General in Council with reference to such explosive.

(ii) Any explosive material when made up into a cartridge or charge for cannon, shells, mines, blasting, or other like purposes, shall be packed in the manner required for the same explosive material when not so made up:

Provided that where a double package is required, the enclosing case of such cartridge or charge, if it satisfies the conditions required for the inner package, may be held to be such inner package.

(iii) Any other explosive of the 2nd division shall be packed in a box, barrel, or case of wood, metal, or other solid material, and of such strength, construction, and character that it

will not be broken or accidentally opened, or become defective or insecure whilst being conveyed, and will not allow any explosive to escape: and any one such package shall not contain more than 100 lbs. of ammunition.

(*e*) If the explosive belongs to the 3rd division of the 6th (ammunition) class, it shall be packed in a double package. The inner package shall not contain more than 2 lbs. of such explosive, and no more than 50 lbs. shall be contained in the outer package.

(*f*) If the explosive belongs to the 1st division of the 7th (firework) class, it shall be contained in a double package. The inner package shall be a substantial canister, case, or other receptacle hermetically closed, and containing no more than 1 lb. of explosive, and no more than 20 lbs. shall be contained in the outer package; and

(*g*) If the explosive belongs to the 2nd division of the 7th (firework) class, it shall be contained in a box, barrel, or case of wood, metal, or other solid material, and of such strength, construction, and character that it will not be broken or accidentally opened, or become defective or insecure whilst being conveyed, and will not allow any explosive to escape, and the quantity of explosive in any one package shall not exceed 100 lbs.

IV.—Whatever be the amount of the explosive, and to whatever class or division of a class it belongs, the following conditions shall be observed:—

(*a*) The interior of every package, whether single or double, shall be kept free from grit and otherwise clean;

(*b*) every package, whether single or double, when actually used for the packing of the explosive, shall not be used for the packing of any other explosive of the same or any other class or for any other purpose, except with the consent of, and under conditions approved by, an Inspector of Explosives;

(*c*) there shall be any iron or steel in the construction of any such single package or inner or outer package unless the same is effectually covered with tin, zinc, or other suitable material;

(*d*) on the outermost package there shall be affixed, in conspicuous characters, by means of a brand or securely attached label or mark, the word "Explosive," followed by the name of the explosive or other description of the contents, and the name and address of the owners or senders; and

(*e*) the amount of the explosive in any single package, or, if there is a double package, in any one outer package, shall not exceed the amount specified in the foregoing rules, except with the consent of, and under conditions to be approved

by, an Inspector of Explosives or other officer appointed by the Local Government in this behalf.

3. Whoever commits a breach of any of the foregoing rules relating to the packing of explosives for conveyance, shall be punishable with fine which may extend to Rs. 1,000.*

(b) Mode of conveyance.

4. The following general rules shall be observed with respect to the conveyance of explosives :—

I.—No explosive shall be conveyed from place to place unless packed in the manner provided for in the foregoing rules.

II.—There shall not be conveyed in any carriage or vessel, which is being used for the conveyance of an explosive, any explosive of a different class and division, of whatsoever nature, which contains its own means of ignition, unless it is sufficiently separated therefrom to prevent any fire or explosion which may take place in one such explosive being communicated to another.

III.—Except in the case of small consignments carried by railway, which may be unloaded at any time, explosives shall be loaded or unloaded only between sunrise and sunset. For the purposes of this rule no consignment of more than half a wagon-load booked to one station shall be deemed to be a small consignment.

IV.—Whilst the explosive is being loaded on or unloaded out of any carriage or vessel, no fire or artificial light, nor any article which is liable to cause or communicate fire or explosion [such as charcoal, lucifer-matches, articles for striking a light, petroleum to which the Petroleum Act (XII of 1886) or any other Act for the time being in force regarding the importation, possession, and transport of petroleum, applies, or any spirit or oil or substance that gives forth an inflammable vapour at a temperature below 100° Fahrenheit] shall be, or shall be allowed to be, brought, had, or used dangerously near to such carriage, ship, or boat, and no smoking shall be allowed in, on, or dangerously near, to the same:

Provided that when the use of a light for the purposes of such loading or unloading is unavoidable, a lamp of such construction, position, or character as not to cause any danger from fire or explosion may be used; and no person, while handling any explosive (except an explosive of division 1, class 6, or an explosive of class 7, if packed in accordance with the packing rules) shall wear boots or shoes with iron or steel nails, heels, or tips.

V.—In the loading or unloading of any explosive, the casks and packages containing the same shall be

* Rules regarding search for, and detention of, explosives contravening regulations have been issued by the Local Governments.

passed from hand to hand and not rolled upon the ground; they shall not be thrown or dropped down, but shall be carefully deposited and stowed.

VI.—The explosive shall not be conveyed except in the interior of a carriage so enclosed on all sides with wood or metal, or in the hold of a ship or boat having a close deck so closed, as effectually to protect the explosive against accident by fire from without. If the explosive cannot be so secured, it shall be completely covered with painted cloth, tarpaulin, or other suitable material so as to effectually protect it against communication of fire.

VII.—There shall not be any iron or steel in the interior of the portion of the carriage or vessel with which the case containing the explosive is in contact, unless the same is effectually covered with leather, wood, cloth or other suitable material.

VIII.—In the stowing of the explosive, due precautions shall be taken by means of a partition or otherwise, and by careful stowing to secure such explosive from being brought into contact with, or endangered by, any other article or substance conveyed in such carriage or vessel which is liable to cause fire or explosion; and if the explosive is dangerously affected by water, due precautions shall be taken to exclude water from coming into contact with such explosive.

IX.—The amount of the explosives conveyed in any one carriage or vessel at any one time shall not exceed 2,000 lbs., unless the carriage be so enclosed on all sides with wood or metal, or the vessel have a close deck so closed, as effectually to protect the explosive against accident by fire from without, in which case the amount of the explosives conveyed shall not exceed the following:—

In any one carriage on a railway	... 10 tons.
In any one other carriage ...	... 2 ,,
In any one vessel	... 20 ,,

Note.—This rule shall, in the case of dynamite conveyed by railway, be read subject to paragraph XII of Rule 6.

X.—Nothing in the foregoing rules (except Rule I) shall apply to any explosive of the 1st division of the 6th (ammunition) class:

Provided that all due precautions are taken for the prevention of accidents.

5. The following rules shall be observed with respect to the conveyance of explosives otherwise than by railway:—

I.—No explosive shall be conveyed in a carriage or boat whilst carrying or plying for public passengers, unless the quantity is less than 5 lbs., and notice has been given beforehand to the person in charge of such carriage or boat:

Provided that there shall not be conveyed in any such carriage or boat any explosive of the 5th (fulminate) class, or any explosive of the 3rd division of the 6th (ammunition) class or of the 1st division of the 3rd (nitro-compound) class, except—

(*i*) dynamite which may be carried in the form of cartridges up to the limit of 5 lbs.:

Provided that no detonators are carried in the same compartment; and

(*ii*) detonators to the number of 200:

Provided that the amount of explosive of the 5th (fulminate) class in the detonators shall in no case exceed in the aggregate 3 oz. (a certificate to this effect being given by the Agent of the Company by whom the detonators are tendered for transport):

Provided also that no dynamite is carried in the same compartment.

II.—With respect to the conveyance by carriage or vessel of explosives of the 5th (fulminate) class, or of the 3rd division of the 6th (ammunition) class, or of the 1st division of the 7th (firework) class, or of larger quantities than 5 lbs. of any other explosive, the following regulations shall be observed:—

(1) The person in charge of the carriage or vessel shall not drive or conduct the same in a dangerous or reckless manner, and shall take all due precautions to avoid fire and explosion, and no person shall do any act or thing in relation to the explosive which tends to cause fire or explosion, and is not reasonably necessary for the conveyance of the explosive or for work immediately connected with such conveyance; and a person who is intoxicated shall not have charge of any carriage or vessel conveying explosive, and shall not be permitted to be in, or on, or attending the same.

(2) A person shall not forward to any warehouseman or carrier a consignment of explosive, unless he has given notice to such warehouseman or carrier beforehand, stating the name and quantity of the explosive proposed to be conveyed, and the name and address of the proposed consignee, and has had an intimation that the warehouseman or carrier is prepared to receive the consignment; and a warehouseman or carrier shall not make such an intimation, nor receive such consignment, unless he is prepared to receive it, and forthwith to despatch the same, or to deposit it in a magazine or at a place at which a person is licensed to possess the same

(3) The carriage or vessel conveying the explosive shall be in charge of, and constantly attended by, some competent person, or by a sufficient number of competent persons, and such persons shall not, if the amount of the explosive conveyed exceed 100 lbs., stop or delay for a longer time than may be reasonably necessary, or stop unnecessarily at any place where such stopping would be attended with special public danger.

6. The following rules shall be observed with respect to the conveyance of explosives by public railway:—

I.—No person shall send for carriage upon any railway any consignment of an explosive, unless he has given to the officer in charge of the railway station previous notice in writing which, at the option of the Railway Administration, may extend to 48 hours, of his intention to send such consignment, and stating the true name, description, quantity, and mode of packing of the explosive proposed to be conveyed, and his own name and address, and also the name and address of the proposed consignee, and unless he has had an intimation in writing from an authorized officer of the railway that such consignment will be received.

II.—No explosive which a Railway Administration shall, by any notice or regulation for the time being in force, notify that they will not receive, shall be brought, sent, or forwarded to, or upon, any railway of the said Railway Administration.

III.—Consignments of explosives shall be sent to the forwarding station and shall be received by the railway servants, only at such times, between sunrise and sunset, as the Railway Administration may appoint; and every package containing any explosive proposed to be conveyed on any railway shall immediately on arrival at the station be unloaded and placed in a safe place under the special direction of the officer in charge of the station.

All gunpowder under despatch or receipt by a Government arsenal, depôt, or factory, shall be loaded or unloaded in the railway vans by Government servants employed in such arsenal, depôt or factory. In each van used by the railway for the transport of gunpowder the packages of gunpowder shall be secured in such a way as to prevent concussion when the train is in motion.

IV.—An explosive shall be removed by the consignee from the receiving station during the twelve hours of daylight after arrival: if this condition is not strictly complied with, the Railway Administration may return the consignment to the consignor at his risk and expense. And such packages shall in the meanwhile be kept as far away from the station buildings as possible in the wagon they were conveyed in, or, if unloaded, shall be completely covered with tarpaulins or other suitable material, and, if necessary, shall be protected by a police guard.

V.—The Railway Administration may refuse to receive any packages which they suspect to contain any explosive packed or sent in contravention of these regulations. And in case any package, which the Railway Administration suspect, shall be upon any railway, the Railway Administration may open, or require to be opened, such package,

to ascertain the fact, at the risk and expense of the consignor, and may return the explosive contained in the package to the consignor at his risk and expense, keeping the packages, pending such return, in the manner prescribed in the preceding rule.

VI.—Subject to the exception provided for in clause (*e*), no explosive shall be conveyed by passenger-train except of the kinds and in the manner hereinafter specified in this rule :—

(*a*) Safety cartridges and percussion-caps and safety-fuze (for blasting), also fog-signals for railway use, which may be conveyed in ordinary wagons or carriages.

(*b*) Dynamite which may be carried in the form of cartridges up to the limit of 5 lbs.:

Provided that no detonators are carried in the same compartment.

(*c*) Detonators which may be carried to the number of 200:

Provided that in no case the amount of fulminate of mercury in the package or packages containing the detonators exceeds in the aggregate 3 oz. (a certificate to this effect being given by the Company, firm or person tendering the detonators for transport or by its or his agent):

Provided also that no dynamite is carried in the same compartment.

(*d*) Sporting gunpowder or non-safety cartridges packed in double cases as before provided, so long as the gunpowder is contained in one-pound tin canisters packed in a stout wooden case with an outer covering of tin or zinc completely spark-proof, or in metal-lined cases of a pattern approved by the Railway Administration. But no outer case shall contain more than 25 lbs. of gunpowder, and the total consignment of gunpowder or non-safety cartridges by one train shall not exceed 80 lbs.

(*e*) Explosives may be carried by mixed trains on any line on which goods trains are not running, subject to the conditions that not more than one vehicle containing explosives is forwarded at any one time by a mixed train; that the precautions prescribed for conveyance by goods trains are observed; and that directly a wagon containing explosives arrives at a section on which goods trains are running, it is detached from the mixed trains.

VII.—Not more than five carriages containing explosives shall be loaded or unloaded at any railway station, or be conveyed by any one train at any one time; and the quantity of explosive to be contained in any one carriage shall not exceed

two-thirds of the normal load, unless the carriages shall be specially built and approved of by the Government of India for the conveyance of explosives. But nothing in this clause shall be held to apply to separate consignments of small-arms ammunition.

VIII.—There shall not be conveyed in the same carriage with any explosive, any lucifer or other matches, fuzes, pipelights, acids, naphtha, paraffine, petroleum to which the Petroleum Act (XII of 1886), or any other Act for the time being in force regarding the importation, possession and transport of petroleum, applies, or any other volatile spirit or substance liable to give off an inflammable vapour or liable to spontaneous ignition, or to cause or communicate fire or explosion.

IX.—The consignor shall attach to the consignment note a certificate or (provided the original is produced for verification) copy of a certificate, signed by an officer authorized by the Local Government in this behalf that the explosive, if it is an explosive of class 3 or 4, is of the standard purity; and further, in the case of dynamite, and all nitro-glycerine compounds, that there are no signs of exuded nitro-glycerine or of liquefaction. The consignor shall also certify that the explosive has been packed in accordance with the packing rules in force in England or in British India.

X.—In the case of explosives under classes 3 and 4 the outer packages shall be marked with the date of the manufacture of the explosives. The abovementioned certificate shall contain sufficient information to admit of all packages being easily recognised.

XI.—The certificate referred to in Rule IX shall be valid for six months after date, if the examination has been made between the 15th October and 31st March; but any Railway Administration which accepts dynamite for transport may demand a fresh certificate for dynamite presented for conveyance between 1st April and 15th October (both inclusive).

XII.—Packages containing dynamite shall be stowed in one layer only and secured so as to prevent movement during transit, and the gross load in any one wagon shall not exceed 3 tons:

Provided that, if the packages of dynamite are in rectangular form and are properly secured so as to prevent movement during transit, they may be stowed in any number of layers not exceeding five, and the gross load in any one wagon shall not exceed 5 tons.

XIII.—No explosive belonging to the 5th (fulminate) class or to class VI, division 3, shall be carried in the same train with dynamite, or with any other explosive belonging to class III, division 1.

XIV.—Wagons used for the carriage of explosives shall be examined to see that they are spark-proof, and have been cleaned out before they are loaded. Hair, cloth, hides, or other suitable materials shall be spread on the floor of the wagon and between each layer of packages, except when the packages are covered with gunny or felt, or contain small-arms ammunition packed in tin-lined service-pattern boxes.

XV.—Wagons containing explosives shall be loaded and unloaded on sidings distant as far as possible from the station buildings.

XVI.—Five layers of packages in rectangular form and of uniform size (provided they are double packages, and are so secured as to prevent movement during transit) may be packed one above another. Otherwise not more than three layers of packages containing explosives shall be packed one above another. But in the case of small-arms ammunition packed in tin-lined service-pattern boxes, there is no restriction. Subject to the provisions of Rule 4 (III), the loading and unloading of explosives when once begun shall be diligently proceeded with until the same is completed.

XVII.—When the train is being marshalled, wagons loaded with explosives may be shunted by a locomotive, if they are separated from the engine by not less than three wagons containing no explosive nor easily inflammable substance; this precaution is not necessary with wagons specially constructed for the carriage of explosives. The speed of these movements shall be restricted to 5 miles an hour; they shall be superintended by a duly authorized officer, who shall be held responsible for the observance of these orders. Flying shunts are strictly prohibited.

XVIII.—Wagons containing explosives shall be placed at the end of the train away from the locomotive, and shall be close coupled to one another, as well as to the adjoining wagons, and preceded and followed by three wagons not loaded with explosives or other traffic of an inflammable nature.

XIX.—If the wagons employed in the transport of explosives are provided with brakes other than iron brakes, the brakes thereon shall on no account be worked while the wagons are running with a train, nor shall brakes, other than iron brakes, on vehicles immediately adjoining such wagons, be worked while such wagons are so running.

G. I., H. D., No. 499, dated 3rd March 1899; *vide* G. N. No. 1805, dated 8th idem.

XX.—Wagons shall in every case be locked when loaded with explosives.

XXI.—All operations connected with the transhipment of explosives at junction stations shall take place during daylight.

7. Whoever commits a breach of any of the foregoing rules relating to the mode of conveyance of explosives, shall be punishable with a fine which may extend to Rs. 100.

IMPORTATION.

8. An explosive shall not be imported by sea into British India, except under, and in accordance with, the conditions of a license to import the explosive granted under these rules :

Provided that any explosive other than an explosive specified in Rule 11 may, previous to the grant of an importation license, if certified to be of British manufacture or, if not of British manufacture, if imported from the United Kingdom and covered by the certificate granted by one of Her Majesty's Inspectors of Explosives in England, be landed in accordance with such regulations as the Local Government may prescribe in this behalf, and be stored in a place set apart by the Local Government for this purpose. The Governor General in Council may extend this privilege to any such explosive not of British manufacture regarding which he is satisfied that it has been manufactured under adequate official supervision.

Before any explosive is landed under the proviso to this rule, the consignee shall give to the Chief Customs Officer of the Port such undertaking, with or without security, as the said officer thinks sufficient, to obey, in the event of the explosive failing to satisfy the prescribed tests, such directions as to its disposal as the Local Government may see fit to prescribe.

If samples are taken by an officer deputed by the Chief Customs Officer on board the ship on its arrival the procedure shall be that prescribed in Rule 15.

9. Whoever imports an explosive in contravention of Rule 8, he shall be punishable with fine which may extend to Rs. 3,000.

10. An explosive shall not be imported by sea except at the ports of Calcutta, Madras, Bombay, Rangoon, Calicut, Karáchi, and Aden ; but a license to import an explosive by sea from Rangoon into the ports of Akyab, Moulmein, Sandoway, Kyouk-Phyoo, Tavoy and Mergui may be granted by the Magistrates of the Districts in which these ports are respectively situated. The fee payable in respect of each such license shall be one rupee, and the license shall be in Form A in the Schedule hereto annexed.

11. If the explosive is gunpowder or an explosive of the 1st division of the 6th (ammunition) class or an explosive of the 7th (firework) class, the license to import the same may be granted at the ports of Calcutta, Madras, and Bombay by the Commissioner of Police, and at the ports of Rangoon, Calicut, Karáchi, and Aden by the District Magistrate.

12. The fee payable in respect of each such license shall be Rs. 10, but if any explosive imported under a license into a British port is exported thence to another British port named in Rule 10, the necessary license for such re-import may be granted on payment of a fee of one rupee instead of Rs. 10.

*13. Licenses for the importation by sea of any explosives other than those specified in Rule 11 shall be granted by the Local Government or by some officer specially authorized by the Local Government in this behalf.

14. No license shall be granted for the importation of any explosive of the description referred to in Rule 13, if it be an explosive for which a test or examination has been prescribed by or under the orders of the Government of India, unless samples of the explosive taken, as hereinafter provided, are certified by the Chemical Examiner or some other officer appointed by the Local Government in this behalf to have passed the test or examination from time to time prescribed.

15. On the arrival, in any port at which the importation of explosives is lawful, of a ship having on board an explosive other than an explosive of the description referred to in Rule 11, such officer as the Chief Customs Officer authorizes in this behalf shall, as soon as may be, proceed on board and shall, if testing or examination is requisite under the last preceding rule, obtain samples of the explosive.

All explosives of which samples are taken for examination shall be forthwith deposited in a duly licensed place or places of storage, and shall not be distributed for use until the importer has received from the licensing authority notice that it may be so distributed.

The master of the ship shall give to the said officer, without charge, such samples as he may require. The said officer shall affix to each such sample the name of the ship and of the consignee and such other distinguishing marks as he may think necessary, and shall forward the same to the Chemical Examiner or officer as aforesaid for report.

The Chemical Examiner or officer as aforesaid, after testing the said samples, shall without delay forward to the licensing authority, through the Chief Customs Officer, a report under his signature certifying whether the explosive has satisfied the prescribed test.

15-A. Explosives, other than those referred to in Rule 11, which have already undergone the test prescribed by Rules 14 and 15 at the ports of Calcutta, Madras, Bombay, Rangoon, Calicut, Karáchi or Aden, may be re-imported by sea into any other

* Under No. 13 of the rules to regulate the transport and importation of explosives published with Government Notification No. 5283, dated 14th July 1897, His Excellency the Governor in Council is pleased to authorize the Commissioner in Sind to grant the import licenses therein referred to at the port of Karáchi. G. N. No. 2636, dated 17th April 1899.

of those ports under a license granted under Rule 13, without re-testing, but subject, in the case of such explosives as are mentioned in Rule 6, Clause IX, to the production of the certificate prescribed in that clause.

Such certificate shall be valid for six months after date, if the examination has been made between the 15th October and 31st March; but in the case of dynamite, a fresh certificate may be demanded if the consignment is imported between the 1st April and 15th October (both inclusive).

16. The period for which a license to import an explosive, granted under Rule 13, shall continue in force shall not exceed such period as may seem necessary to the authority granting the license.

17. The fee payable on a license granted under Rule 13 shall be Rs. 10, but, if any explosive imported under a license into a British port is exported thence to another British port named in Rule 10, the necessary license for such re-import may be granted on payment of a fee of one rupee instead of Rs. 10.

18. Every license granted under Rules 11 and 13 shall be in Form A in the Schedule hereto annexed, and shall be subject to the conditions therein prescribed, and also to such additional conditions with respect to the time and place of unloading, landing, delivery, and conveyance of the explosive, and such other conditions as may in each case be thought by the licensing officer to be necessary for the public safety or in the interests of the State.

19. Whoever commits a breach of any condition subject to which a license under Rules 11 and 13 is granted, shall be punishable with fine which may extend to Rs. 3,000.

GENERAL.

20. Every license granted under these rules shall be liable to be forfeited on breach of any of the conditions subject to which it is granted.

21. If a person licensed to import an explosive dies or becomes bankrupt, or becomes mentally incapable or otherwise disabled, the person carrying on the business of such licensee shall not be liable to any penalty or forfeiture under the Indian Explosives (Act IV of 1884) or the rules thereunder for acting under the license during such reasonable time as may be necessary to allow him to make an application to the authority granting the license for a new license in his own name during the currency of the unexpired portion of the original license. Such new license shall be granted on the payment of one rupee.

22. The fees leviable under these rules shall be taken in the shape of impressed stamps. Ordinarily the applications for licenses or renewals of licenses shall, if not otherwise provided, be written on impressed stamps of value equal to the amount of fee leviable in respect of such licenses or renewals,

the licenses themselves being issued on plain paper. But when the licenses themselves are written or printed on impressed stamps, the application may be on plain paper. When an application for license is written on an impressed stamp, and the license is refused, the value of the stamp will on application be refunded to the applicant.

23. When a license granted in accordance with these rules is lost, or accidentally destroyed, a duplicate may be granted to the licensee on payment of a fee of 8 annas.

24. Any person holding a license, or acting under a license granted in accordance with these rules, shall be bound to produce the same when called upon to do so by any Magistrate, or by any Police officer in charge of a Police station, or by any Police officer of higher rank.

25. All Magistrates or other authorities acting under these rules shall perform their duties subject to the control of their executive superiors and of the Local Government.

26. Any authority empowered to grant a license under the foregoing rules may, if he thinks fit, direct by any order written on the license that it shall have the effect of a like license under the Indian Arms Act (XI of 1878).

27. Any persons lawfully entitled under the Indian Arms Act, 1878 (XI of 1878), or the rules thereunder, to possess any explosive coming under the head of ammunition, as defined in that Act, may possess or import without license under these rules any such explosive in such quantities as may be prescribed by that Act or the rules thereunder, or, when no quantities are prescribed, in reasonable quantities for his own private use, but, when an explosive is so imported, the Collector of Customs or any other officer empowered by the Local Government in this behalf by name or by virtue of his office, may at any time detain such explosive until he receives the orders of the Local Government thereon.

G. I., H. D., No. 2177, dated 4th November 1898; *vide* G. N. No. 7190, dated 9th idem.

Form A.

(See Rules 11, 13 and 18.)

FEE—TEN RUPEES IN STAMPS.

*License to import Explosives into the Port of*_____

Name, &c., and address of license-holder.	Number of packages.	EXPLOSIVE.			Purpose for which required.	Destination.	Period for which the license is valid.
		Description.	Weight.	Number.			
							From the_____th of_____ to the_____th of_____ 18 .

The_____of_____

189 .

Seal.

(Signature)

_____of_____

Conditions.

1. This license is given subject to the provisions of "The Indian Explosives Act (IV of 1884)," and the Rules framed thereunder. Certain general rules are quoted separately below.

2. This license shall become void after expiry of the period named thereon.

3. This license is valid for importation only: if the articles named herein are to be transported to any place outside the Presidency Town, they must be protected by a transport license, to be issued in accordance with the rules framed under the Indian Arms Act (XI of 1878).

4. On the outside of each package there shall be affixed in conspicuous characters by means of a brand or securely attached label or mark the word "Explosive," followed by the name of the explosive or other description of the contents, and the name and address of the owners or senders.

GENERAL RULES.

* * *

20. Every license granted under these rules shall be liable to be forfeited on breach of any of the conditions subject to which it is granted.

21. If a person licensed to import an explosive dies or becomes bankrupt or becomes mentally incapable or otherwise disabled, the person carrying on the business of such licensee shall not be liable to any penalty or forfeiture under the Act or the rules made thereunder for acting under the license during such reasonable time as may be necessary to allow him to make an application to the authority granting the license for a new license in his own name during the currency of the unexpired portion of the original license. Such new license shall be granted on the payment of one rupee.

22. The fees leviable under these rules shall be taken in the shape of impressed stamps. Ordinarily the applications for license or renewals of licenses shall, if not otherwise provided, be written on impressed stamps of value equal to the amount of fee leviable in respect of such licenses or renewals, the licenses themselves being issued on plain paper. But when the licenses themselves are written or printed on impressed stamps, the application may be on plain paper. When an application for license is written on an impressed stamp, and the license is refused, the value of the stamp will, on application, be refunded to the applicant.

23. When a license granted in accordance with these rules is lost, or accidentally destroyed, a duplicate may be granted to the licensee on payment of a fee of 8 annas.

24. Any person holding a license, or acting under a license granted in accordance with these rules, shall be bound to produce the same when called upon to do so by any Magistrate, or by any

Police officer in charge of a Police station, or by any Police officer of higher rank.

(G. I., H. D., Notn. No. 1393, dated 8th July 1897; *vide* G. N. No. 5283, dated 14th idem.)

RULE FOR TESTING EXPLOSIVES.

2. With reference to Rule 14 of the rules to regulate the transport and importation of explosives published with Home Department Notification No. 1393, dated the 8th July 1897, the Governor-General in Council is pleased to make the following rule on the subject of the tests which explosives should be required to pass before their importation is permitted:—

Rule.

Class 1.—Gunpowder class. Gunpowder is not required to pass a test.

Class 2.—Nitrate-mixture class. Nitrate-mixture explosives are not ordinarily required to pass a test. The Local Government, however, or the authorized officer granting the import license under Rule 13 of the Rules to regulate the transport and importation of explosives published with Home Department Notification No. 1393, dated the 8th July 1897, may in any particular case or class of cases require that a sample of the explosive which is to be imported be sent first to the Chemical Examiner for an analysis of its constituent parts.

Class 3.—Nitro-compound class. It is for explosives of this class that testing is chiefly required, in respect to the purity of their composition and their liability to liquefaction or exudation. The tests prescribed for nitro-compound explosives are contained in Schedule A attached to this rule.

Class 4.—Chlorate-mixture class. See Schedule A for remarks regarding the testing of this class*.

Class 5.—Fulminate class. No test has been laid down for explosives of the Fulminate class.*

Class 6.—Ammunition class. No test is required for explosives of the 1st division of this class. If the substances of which explosives of the 2nd and 3rd divisions are composed have to be tested under the preceding rules, they will be equally liable to be tested when enclosed in any case or contrivance and thus falling under the Ammunition class.

Class 7.—Firework class. Explosives of this class are not required to pass a test.

SCHEDULE A.

HEAT TEST AS APPLIED TO EXPLOSIVES OF THE NITRO-COMPOUND CLASS.

GENERAL INSTRUCTIONS.

Apparatus required.

1. A water bath, consisting of a spherical glass or copper vessel [(*a*) Fig. I] of about 8 inches

* Licenses are not at present given for the importation into British India of any explosives of these classes.